Hanford Cleanup







NAS Technology Roadmap Committee Meeting October 31, 2007

Hanford Site

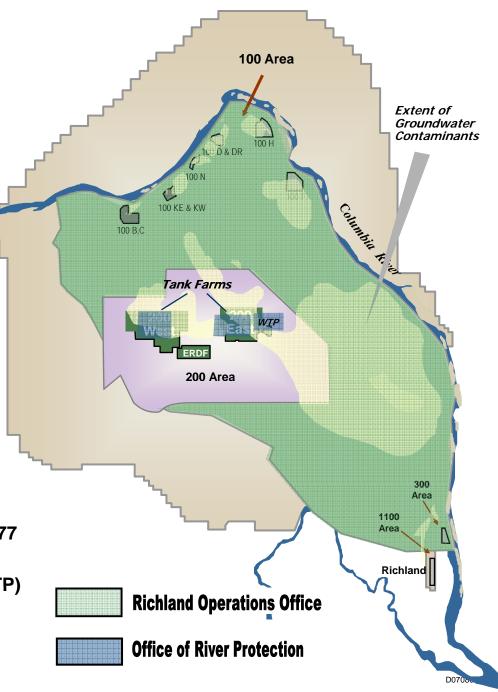
Cleanup Challenge

Richland Operations Office

- 2,100 metric tons of spent nuclear fuel
- 18 metric tons of plutonium bearing materials in various forms
- 80-square miles of contaminated groundwater
- ~25 million cubic feet of buried or stored solid waste in 175 waste trenches
- ~1,700 waste sites and 500 contaminated facilities, including five processing "canyons" and nine reactor complexes
- 1,936 capsules of cesium and strontium, containing 130 million curies of radioactivity

Office of River Protection

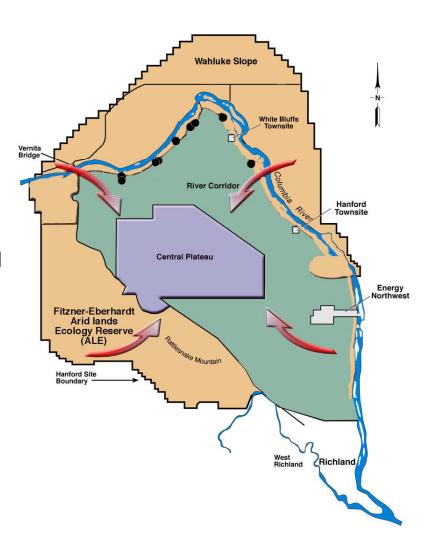
- More than 50 million gallons of tank waste in 177 underground storage tanks
- Construction of the Waste Treatment Plant (WTP)



Hanford Cleanup Strategy

Focus on activities that reduce risk

- Remove/stabilize high-risk materials
- Deactivate and decommission excess facilities
- Minimize long-term risks related to materials that will remain on-site
- Work closely with regulators and the community to make decisions to guide and enable physical progress
- Deploy comprehensive business approaches to improve performance

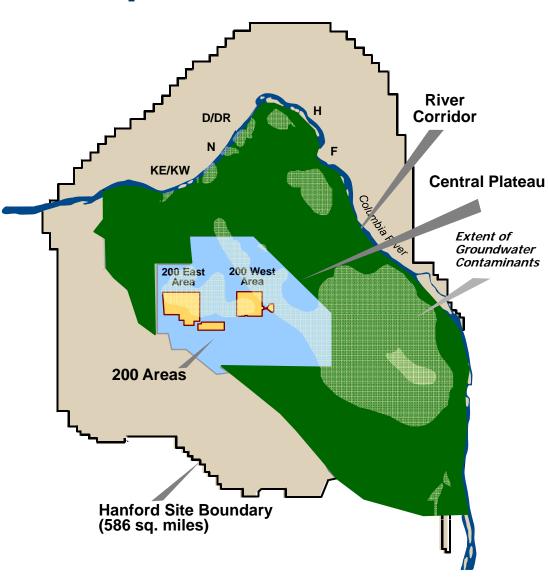


River Corridor Cleanup Goals

River Corridor (218 square miles)

- Demolition of ~486 structures/facilities
- Remediation and closure of 761 waste sites
- Place nine reactors into interim safe storage configuration
- Remediate and treat groundwater plumes

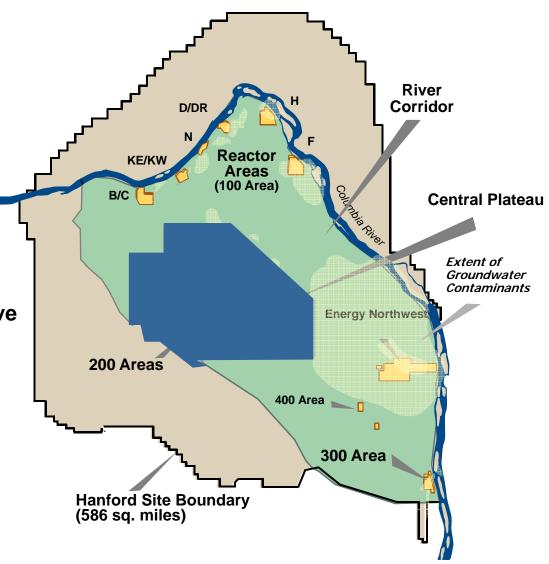




Central Plateau Cleanup Goals

Central Plateau (75 square miles)

- Demolition of 950 structures/facilities
- Remediation and closure of 850 waste sites and burial grounds
- Remediate and clean up five large processing canyons
- Remediate and treat groundwater plumes
- Central Plateau
- River Corridor



Hanford Cleanup Progress Status – 2007

Waste Retrieval & Disposal

Retrieved 6,133 cubic meters (~29,486 drum equivalents)





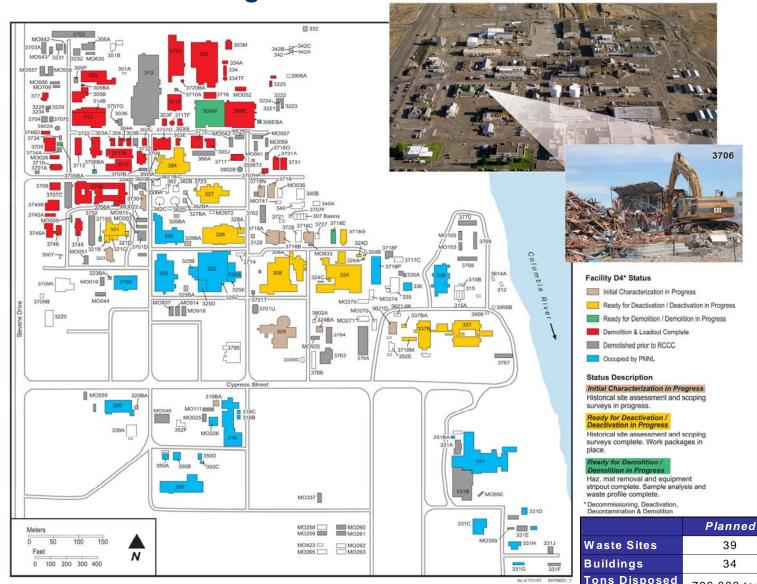
nvironmental Restoration isposal Facility (ERDF)



Completed 359 (2469 cubic meters) transuranic waste shipments to WIPP

Hanford Cleanup Progress Status – 2007

River Corridor Building Demolition - 300 Area



Completed

65

104

946.000 tons

disposed*

736,000 tons

* However, surpassed 1 million tons in August

at ERDF

Hanford Cleanup Progress Status – 2007

Demolished the second of nine highly contaminated buildings at

Plutonium Finishing Plant facilities





Building 241-Z Demolition (2007)



Building 232-Z Demolition (2006)

